

# Thyroid Eye Disease (TED)

A guide to understanding TED  
and a treatment option



Pam J., Real TEPEZZA Patient

TEPEZZA is a prescription medicine used to treat Thyroid Eye Disease (TED), no matter if you've had TED for months or years. Infusion reactions can happen during or within 24 hours after your infusion of TEPEZZA.

Please see additional Important Safety Information throughout and on [pages 17-19](#) or visit [TEPEZZA.com](https://www.tepezza.com).

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### **Important Safety Information**

Infusion reactions can happen during or within 24 hours after your infusion of TEPEZZA.

**Please see additional Important Safety Information throughout and on pages 17-19.**

# What is Thyroid Eye Disease (TED)?

Thyroid Eye Disease (TED) is a serious lifelong condition. It is a progressive disease, which means it can get worse over time and continue to impact your daily life.

In this brochure you will learn more about TED, and TEPEZZA as a treatment option.



## DID YOU KNOW?

Many people with Graves' disease also have TED. However, TED and Graves' disease are different conditions that need different treatments.

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**TED can make reading hard. So we're dedicated to making our materials more accessible.** At Amgen, we know vision issues caused by Thyroid Eye Disease, like double vision, can make it hard to read or focus. That's why we tested which fonts were easiest to see. The result is the font you see here, called "Tiresias." It was designed specifically for people with low-vision by the Royal National Institute of Blind People.

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# What are the symptoms of Thyroid Eye Disease (TED)?

Thyroid Eye Disease (TED) can cause a number of different symptoms, but it affects everyone differently. You may notice that some symptoms develop slowly, and others appear quickly. In time, TED can leave you with ongoing symptoms like eye bulging, eye pain, double vision, and pressure behind the eyes.

Take a look at the list of potential signs and symptoms below. Check off any that you have had in the past month to help in your discussion with your doctor:

-  Eye pain or pressure
-  Dry, gritty eyes
-  Watery, teary eyes
-  Red, swollen eyes
-  Swollen, puffy eyelids
-  Blurry vision
-  Light sensitivity
-  Bulging eyes
-  Double vision
-  Pulled-back eyelids
-  Misaligned eyes
-  Color vision loss
-  Vision loss

# Risk factors for TED

It is not entirely known why some people develop TED and others don't. But there are certain factors that put some people at greater risk.

If you haven't already been diagnosed with TED and have eye symptoms, check the boxes below if you have any of these risk factors:

- Thyroid problems:** Graves' disease and other thyroid conditions, such as hyperthyroidism and Hashimoto's disease, are known risk factors for TED
- Age:** TED occurs more often in people who are in their mid-40s and older
- Gender:** Women are 5 times more likely than men to develop TED
- Radioactive iodine:** This is a medicine used to treat Graves' disease. It can increase the chances of getting TED and make it worse
- Smoking:** People who smoke are up to 8 times more likely to develop TED



Bring this guide to your next appointment so you and your doctor can discuss your symptoms and develop the best treatment plan for you.

# Causes of Thyroid Eye Disease (TED)

Thyroid Eye Disease (TED) is an autoimmune condition. Normally, the immune system can tell the difference between your cells and foreign cells, like bacteria. But with an autoimmune disease, the immune system attacks healthy parts of your body by mistake.

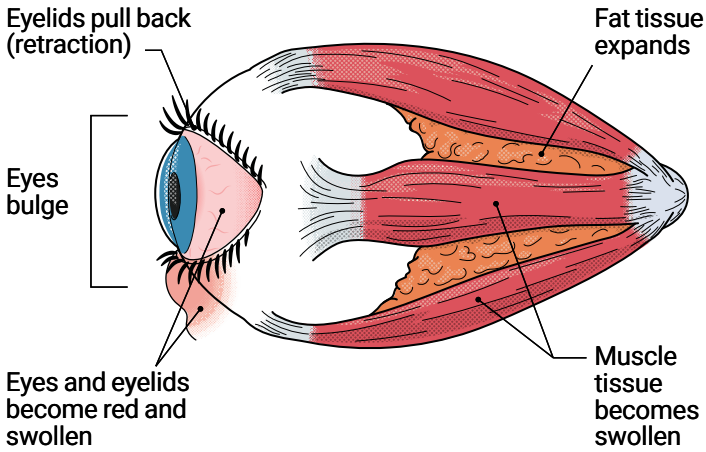
With TED, your immune system is attacking the tissue behind your eyes. This causes inflammation (redness and swelling) and can lead to many different symptoms.

Even if your symptoms seem well-managed, that inflammation can cause scar tissue that can build up over time.



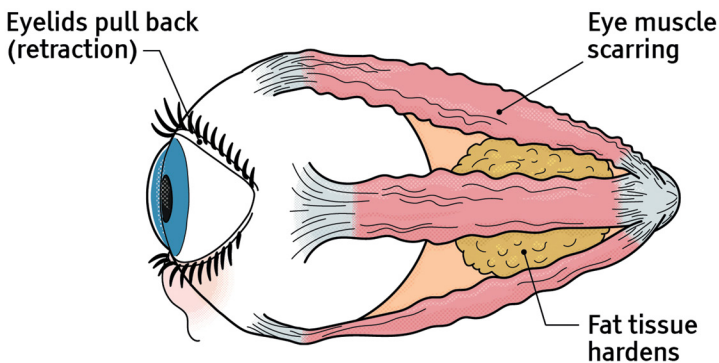
**No matter how long you've had TED, talk to your doctor about your treatment options.**

## What's happening to the eye when symptoms of TED start?



Over time, the scarring and eye damage continue. While you may notice some symptoms get better, others may not go away. TED is an ongoing condition, so it is possible for new symptoms to appear.

## What's happening to the eye over time?



# Who can treat Thyroid Eye Disease (TED)?

Thyroid Eye Disease (TED) is a rare condition that can often be misdiagnosed because its symptoms are similar to other eye conditions.

Types of doctors who can treat TED:

- Oculoplastic surgeons
- Neuro-ophthalmologists
- Strabismus surgeons
- Comprehensive ophthalmologists
- Endocrinologists

A TED Specialist has special tools to perform a TED eye exam to measure and track changes to your eyes over time. And although some of these specialists also perform eye surgery, they are experienced in managing TED.

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Visit [TEDspecialists.com](https://TEDspecialists.com) to find a TED Specialist near you



# TEPEZZA as a Treatment for Thyroid Eye Disease (TED)

TEPEZZA is the first FDA-approved treatment for Thyroid Eye Disease (TED). TEPEZZA treats at a source of TED, not just the symptoms.

When you have TED, a switch called a receptor gets turned on. This causes your immune system to mistakenly attack the muscle and fat tissue behind your eyes. TEPEZZA was designed to block this receptor to stop it from turning on. By blocking the receptor, TEPEZZA reduces inflammation and swelling of muscle and fat tissue, which can improve TED symptoms. Because TEPEZZA works at a source, it treats TED and not just the symptoms.

The exact nature of how TED develops and progresses is not entirely understood, therefore precisely how TEPEZZA works (or, the “mechanism of action”) is not fully understood.

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**Watch a video to see how TEPEZZA works behind the eye. Scan the QR code with your smartphone camera, or visit [HowTEPEZZAworks.com](https://www.tepezza.com/HowTEPEZZAworks.com)**



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## **Important Safety Information (cont'd)**

If you have a reaction while receiving TEPEZZA, your doctor or nurse will slow or stop your infusion and treat your reaction. If you have a severe infusion reaction, your doctor may stop your treatment completely.

**Please see additional Important Safety Information throughout and on [pages 17-19](#).**

## How TEPEZZA can help Thyroid Eye Disease (TED)

TEPEZZA was tested in 2 clinical studies in people recently diagnosed with moderate-to-severe Thyroid Eye Disease (TED). All of the people in the studies had eye bulging, eye pain, redness, and swelling. Some people also had double vision. The studies lasted for 24 weeks and measured changes in eye bulging and double vision.

### Look more like yourself again

In a clinical study, more than

**8 out of 10** 

people who took TEPEZZA saw reduced eye bulging\* vs 1 out of 10 people who took placebo.

\*Eye bulging was reduced by at least 2 mm.

### See more clearly

In clinical studies,

**7 out of 10** 

people who took TEPEZZA saw improvements in double vision vs 3 out of 10 people who took placebo.

**More than 5 out of 10 people saw their double vision completely go away.**

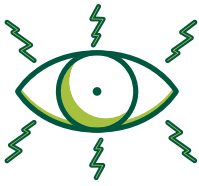
### Important Safety Information (cont'd)

Tell your doctor or nurse right away if you have any of these symptoms during or after your treatment with TEPEZZA: high blood pressure, difficulty breathing, fast heartbeat, headache, redness of the face/feeling hot, or muscle pain.

**Please see additional Important Safety Information throughout and on pages 17-19.**

# Get multi-symptom relief from eye pain, redness, and swelling

In clinical studies, 2 out of 3 people who completed treatment with TEPEZZA had little to no:



**Eye Pain**  
including pain behind the eye and when moving the eye



**Redness**  
of the eye and eyelid



**Swelling**  
of the eye and eyelid

In combined results from two studies, TED patients' levels of inflammation were recorded using their Clinical Activity Score (CAS), which is a tool that doctors use to assess their patients' TED symptoms. It evaluates for the presence of 7 symptoms in the eyes and surrounding area: pain that happens for no apparent reason; pain due to looking at something for too long; eyelid swelling; eyelid redness; redness of the eye itself; swelling of the eye, and inflammation in the inner corner of the eye. The higher the CAS number (from 0 to 7), the more serious the impact of TED is seen to be.

In patients with a CAS of at least 4 at the start of treatment, by the end of treatment 62% (52 of 84) of those treated with TEPEZZA had a CAS of 0 or 1 (seen as inactive disease state) compared to 22% (18 of 87) of those who were treated with placebo.

Each of the 7 symptoms is counted equally toward a single overall score, even though that may not reflect their impact to the individual patient. For example, if a patient has eye redness and eye pain, but is only really bothered by the eye pain, each symptom still adds to the overall score by 1.

## Important Safety Information

TEPEZZA may worsen inflammatory bowel disease (IBD), such as Crohn's disease or ulcerative colitis, even if you don't have a diagnosis of IBD before starting TEPEZZA treatment.

**Please see additional Important Safety Information throughout and on [pages 17-19](#).**

# The latest study shows TEPEZZA can help patients who have had Thyroid Eye Disease for years\*

## Look more like yourself again

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In a recent clinical study, more than

**6 out of 10** 

people taking TEPEZZA saw reduced eye bulging<sup>†</sup>  
vs about 2 out of 10 people taking placebo.

\*Diagnosed with TED for 2 to 10 years before taking TEPEZZA.

<sup>†</sup>Eye bulging was reduced by at least 2 mm.



"Now that I've finished treatment and my double vision is gone, I can read more easily, and with less eye bulging, I feel comfortable having my picture taken."

— Judy B., Real TEPEZZA Patient

### Important Safety Information (cont'd)

Tell your doctor right away if you have worsening IBD symptoms, which may include diarrhea with stomach pain or cramps, blood in your stools, sudden urgency to have a bowel movement, or feeling like you need to have a bowel movement even when there's little or no stool to pass.

**Please see additional Important Safety Information throughout and on pages 17-19.**

**Real-world cases also show use of TEPEZZA in patients with TED for longer than 10 years**



Real patient treated with TEPEZZA. Individual results may vary.

**Before receiving TEPEZZA, this patient had multiple surgeries, including:**

- A thyroidectomy (removal of the thyroid)
- Decompression surgery (to reduce eye bulging)
- Surgery to restore the appearance of her eyes

See more before and after photos of real patients treated with TEPEZZA. Scan the QR code with your smartphone camera, or visit [TEPEZZAphotos.com](https://www.tepezza.com/TEPEZZAphotos.com)



### **Important Safety Information**

TEPEZZA may cause an increase in your blood sugar. Before starting treatment with TEPEZZA, tell your doctor if you are currently being treated for diabetes, know your blood sugar is high, or have been diagnosed with diabetes. It is important for you to take your treatments and follow an appropriate diet for glucose control as prescribed by your doctor.

**Please see additional Important Safety Information throughout and on pages 17-19.**

## How TEPEZZA is given

TEPEZZA is an IV (intravenous) treatment. That means it's given through a needle that's placed in your arm. The process of giving an IV treatment is called an infusion. Infusions are given by a medical professional, such as a registered nurse (RN) or a nurse practitioner (NP).

When it comes to treating autoimmune diseases like TED, IV treatments are common. In fact, IV treatments are used for many autoimmune diseases that you may have heard of, like rheumatoid arthritis, inflammatory bowel disease, psoriasis, and more.

**To make the most of your treatment with TEPEZZA, it's recommended that you get all 8 infusions as prescribed by your doctor.**

### Important Safety Information

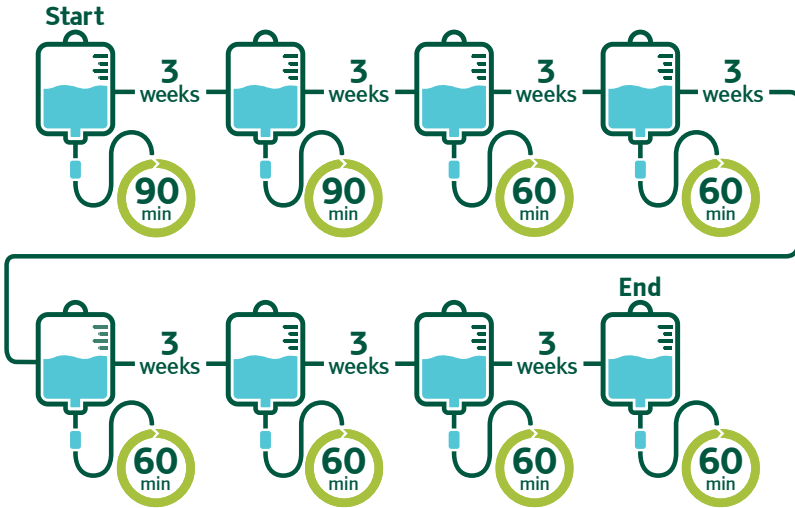
TEPEZZA may cause severe hearing problems including hearing loss, which in some cases may be permanent. Tell your doctor if you have any signs or symptoms of hearing problems or changes in hearing.

**Please see additional Important Safety Information throughout and on pages 17-19.**

## How often you'll get an infusion

You'll receive 1 infusion every 3 weeks, for a total of 8 infusions.

That means a full course of TEPEZZA treatment lasts about 5 months.



The amount of TEPEZZA you receive in each of your 8 infusions will be based on how much you weigh on the day of each infusion.

Your third through eighth infusions may take less time than the first two, but your doctor may decide to keep the time at 90 minutes depending on how your body reacts to the infusion.

Watch a step-by-step guide on the infusion process. Scan the QR code with your smartphone camera, or visit [TEPEZZAinfusions.com](https://www.tepezza.com/infusions)



Please see Important Safety Information throughout and on pages 17-19.

## Real patient results

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See how TEPEZZA helped real people like you with Thyroid Eye Disease.

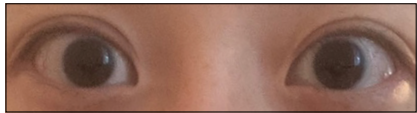
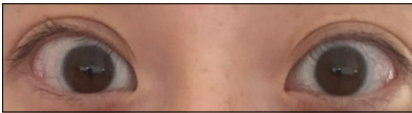
**Before TEPEZZA**



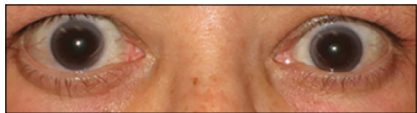
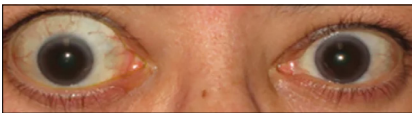
**After treatment (8 Infusions)**



Real patient treated with TEPEZZA. Individual results may vary.



Real patient treated with TEPEZZA. Individual results may vary.



Real patient treated with TEPEZZA. Individual results may vary.

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See more before and after photos of  
TEPEZZA patients at [TEPEZZAphotos.com](https://www.tepezza.com/TEPEZZAphotos.com)

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### Important Safety Information

**Before receiving TEPEZZA, tell your doctor if you:**

- Have inflammatory bowel disease (Crohn's disease or ulcerative colitis).
- Are currently being treated for diabetes, have been diagnosed with diabetes, or know your blood sugar is high.
- Are pregnant or plan to become pregnant. TEPEZZA may harm your unborn baby. Tell your doctor if you become pregnant or suspect you are pregnant during treatment with TEPEZZA.

**Please see additional Important Safety Information throughout and on pages 17-19.**

# IMPORTANT SAFETY INFORMATION

## What is the most important information I should know about TEPEZZA?

Infusion reactions can happen during or within 24 hours after your infusion of TEPEZZA. If you have a reaction while receiving TEPEZZA, your doctor or nurse will slow or stop your infusion and treat your reaction. If you have a severe infusion reaction, your doctor may stop your treatment completely.

## Tell your doctor or nurse right away if you have any of these symptoms during or after your treatment with TEPEZZA:

- High blood pressure
- Fast heartbeat
- Redness of the face/  
Feeling hot
- Difficulty breathing
- Headache
- Muscle pain

TEPEZZA may worsen inflammatory bowel disease (IBD), such as Crohn's disease or ulcerative colitis, even if you don't have a diagnosis of IBD before starting TEPEZZA treatment. Tell your doctor right away if you have worsening IBD symptoms, which may include diarrhea with stomach pain or cramps, blood in your stools, sudden urgency to have a bowel movement, or feeling like you need to have a bowel movement even when there's little or no stool to pass.

TEPEZZA may cause an increase in your blood sugar. Before starting treatment with TEPEZZA, tell your doctor if you are currently being treated for diabetes, know your blood sugar is high, or have been diagnosed with diabetes. It is important for you to take your treatments and follow an appropriate diet for glucose control as prescribed by your doctor.

**Please see additional Important Safety Information on the next page.**

# IMPORTANT SAFETY INFORMATION (continued)

TEPEZZA may cause severe hearing problems including hearing loss, which in some cases may be permanent. Tell your doctor if you have any signs or symptoms of hearing problems or changes in hearing.

## **Before receiving TEPEZZA, tell your doctor if you:**

- Have inflammatory bowel disease (Crohn's disease or ulcerative colitis).
- Are currently being treated for diabetes, have been diagnosed with diabetes, or know your blood sugar is high.
- Are pregnant or plan to become pregnant. TEPEZZA may harm your unborn baby. Tell your doctor if you become pregnant or suspect you are pregnant during treatment with TEPEZZA.
  - Women who are able to become pregnant should use an effective form of birth control (contraception) prior to starting treatment, during treatment and for at least 6 months after the final dose of TEPEZZA.
- Are breastfeeding or plan to breastfeed. It is not known if TEPEZZA passes into your breast milk. Talk to your doctor about the best ways to feed your baby during treatment with TEPEZZA.

**Please see additional Important Safety Information on the next page.**

## **Before receiving TEPEZZA, tell your doctor if you (continued):**

- Tell your doctor about all the medicines you take, including prescription and over-the-counter medicines, vitamins, dietary and herbal supplements. Know the medicines you take. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

## **What are the possible side effects of TEPEZZA?**

The most common side effects of TEPEZZA include muscle cramps or spasms, nausea, hair loss, diarrhea, feeling tired, high blood sugar, hearing problems, taste changes, headache, dry skin, ear discomfort, weight loss, nail problems, and changes in menstruation.

This is not a complete list of all possible side effects. Tell your doctor or treatment team about any side effect you may have.

## **USE**

TEPEZZA is a prescription medicine used to treat Thyroid Eye Disease (TED), no matter if you've had TED for months or years.

**You are encouraged to report negative side effects of prescription drugs to the FDA. Visit [www.fda.gov/safety/medwatch](http://www.fda.gov/safety/medwatch), or call 1-800-FDA-1088.**

**Please see [Full Prescribing Information](#) or visit [TEPEZZA.com](http://TEPEZZA.com) for more information.**

**TEPEZZA**<sup>®</sup>  
teprotumumab-trbw

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